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Overall Approach

Bone, Cartilage, or Extract Thereof ----- &gt;

+

Biological, Chemical Agent or Condition\* ----- &gt;

Substrate(s) ----- -- &gt;

More Specific Example

Bone Matrix

+

Collagenase

Collagen ---- &gt; Collagen fragments

\* 1) Biological agent (e.g., protease, lipase, etc.)

\* 2) Chemical agent (e.g., CNBr, LiCl, etc.)

\* 3) Condition (e.g., heat, radiation)

Figure 1A

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Overall ApproachMore Specific Example

Bone, Cartilage, or Extract Thereof ----- &gt;

Bone Matrix

+

+

Biological, Chemical Agent or Condition\* ----- &gt;

PPC (e.g., furin)

Substrate(s) ----- &gt;

Propeptide ---- > Mature peptide  
(e.g., proBMP2) (mature BMP2)

\* 1) Site-specific (e.g., PPCs)

\* 2) Amino acid-specific (e.g., trypsin, papain)

\* 3) Semi-specific (e.g., pepsin)

a) Exogenous protease, lipase, glycosidase

b) Endogenous protease, lipase, glycosidase

Figure 1B

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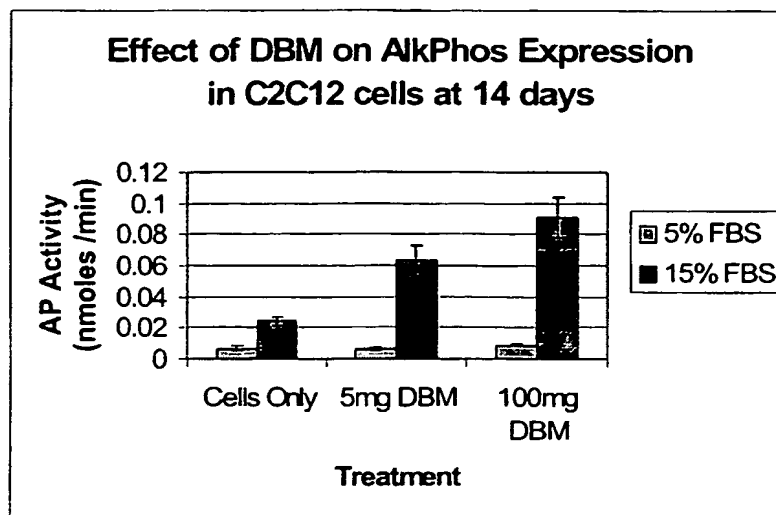


Figure 2

FIG. 2 AVAILABLE COPY

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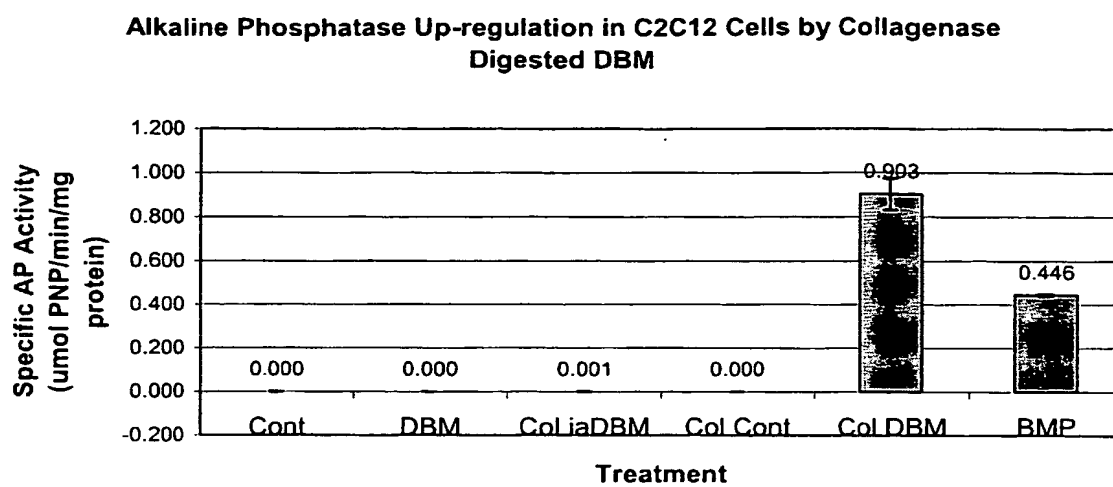


Figure 3

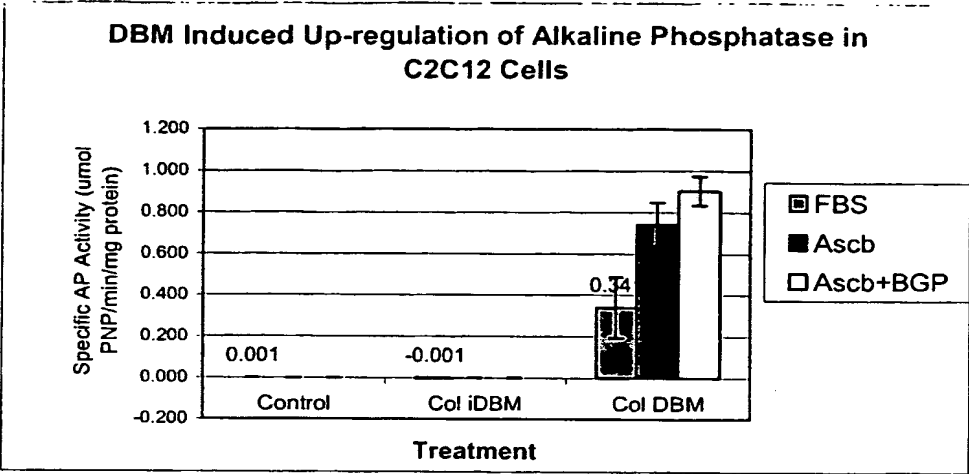


Figure 4

FIG. 4 AVAILABLE IN CD

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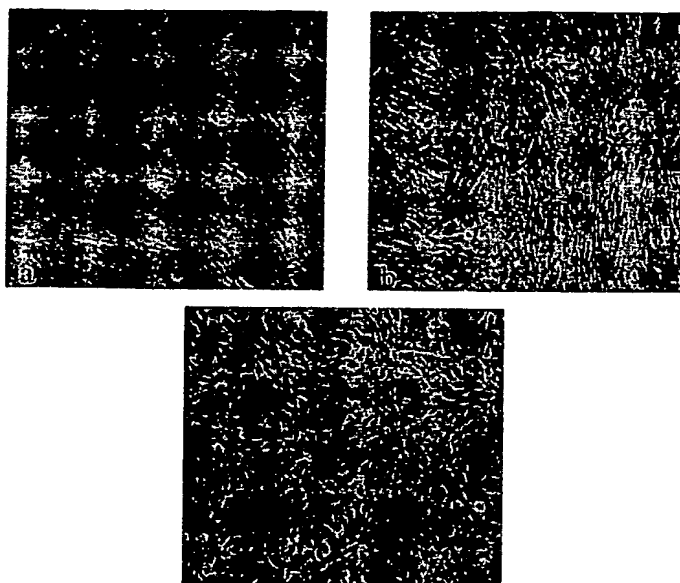


Figure 5

FIG. 5: A series of three micrographs (a, b, c) showing the morphology of cells. (a) shows a dense population of cells. (b) shows a more elongated population of cells. (c) shows a population of cells with a more pronounced elongated morphology.

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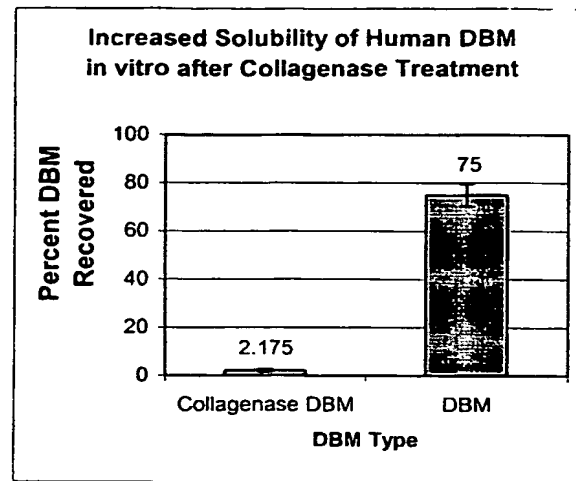


Figure 6

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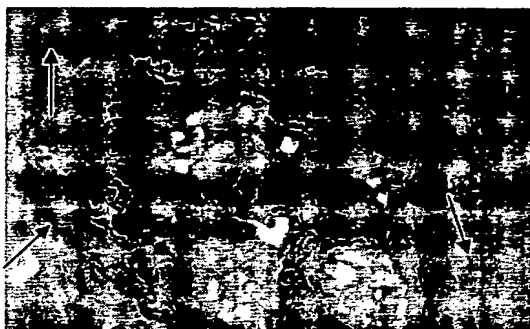


Figure 7A



Figure 7B

FIG. 7A/AVAILABLE COPY